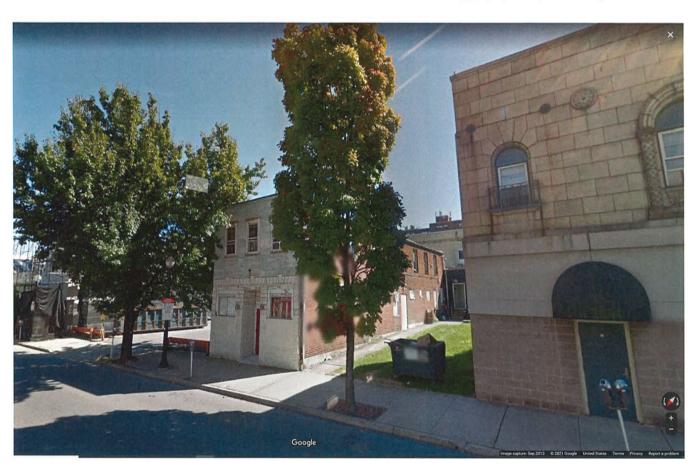
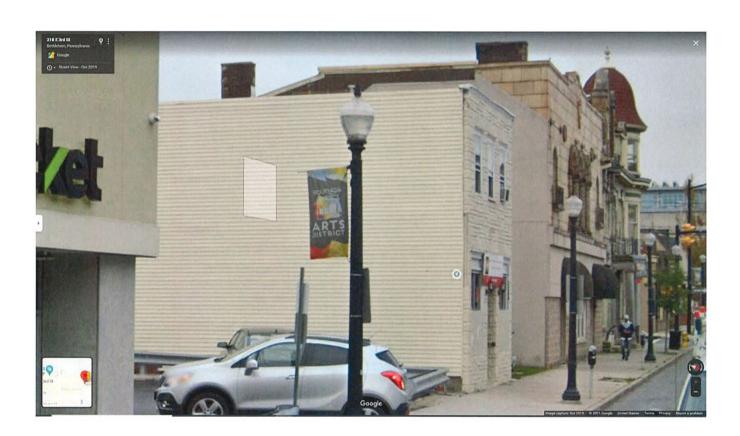
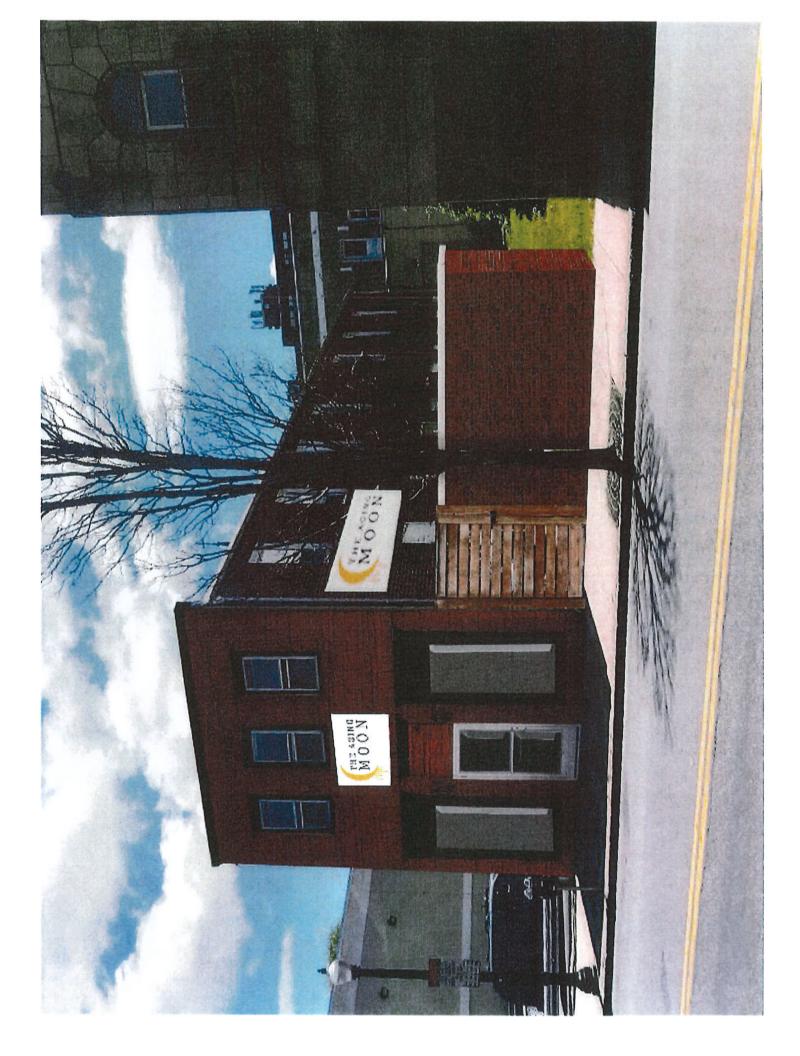
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OWNER'S SIGNATURE DATE: 11//>/2/

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OFFICE COPY









Proposal Number: AL11092021A

MESKO GLASS 171 LLOYD STREET ALLENTOWN, PA. 18109

Phone: 610 - 264 - 3000 Fax: 610 - 264 - 3103

Submitted To: DUSTIN JOSEPH **DUSTIN JOSEPH**

Project Name:

ALUMINUM AND GLASS ENTRY DOOR

Attention: Date Of Bid: 11/9/2021

Prepared By: N/A

JERRY YENSER

Architect: N/A Date Of Plans: Addendas: N/A

Value Of Proposal:

Total Dollars:

\$ 3,185.00

Taxable: (Yes) USE

Add For Bond Premium:

\$0.00

Any changes from the plans or specifications involving additional costs, shall be executed only upon signed orders and will be an extra charge over and above this proposal.

SCOPE

FURNISH AND INSTALL ALUMINUM AND GLASS ENTRY DOOR, FRAME, HARDWARE, AND GLASS AS NOTED.

ALTERNATES ADDS / DEDUCTS

1. N/A

0.00

INCLUSIONS

DOORS: NARROW STILE WITH 10" BOTTOM RAIL. 1 1/2 PAIR NON REMOVABLE PIN BUTT HINGES.

STANDARD DEADBOLT LOCK, WITH KEY AND THUMBTURN CYLINDERS - STANDARD PUSH AND PULL HANDLES.

ADJUSTABLE POWER AND CLOSING SPEED, SURFACE MOUNTED DOOR CLOSER.

DOOR BOTTOM WEATHER SWEEP

FRAMING SYSTEM: 2" X 4 1/4" CENTER GLAZED ALUMINUM FRAME, WITH TRANSOM GLASS ABOFE DOOR.

STANDARD ALUMINUM THRESHOLD.

MATERIAL FINISH: STANDARD DARK BRONZE ANODIZED ALUMINUM FINISH.

BRAKE METAL: NONE REQUESTED AT THIS TIME, OR INCLUDED.

GLASS: 1" OVERALL THICKNESS, CLEAR TEMPERED INSULATED GLASS UNITS, USING 1/4" THICK GLASS

ON BOTH SIDES OD 1/2" SEALED AIRSPACE. ALL GLASS TO BE TEMPERED SAFETY GLASS.

QUOTED FROM: VERBAL CONVERSATION

SHOP DRAWINGS: N/A

ENGINEERING: Structural PSF: N/A Deflection: N/A

EXCLUSIONS

PROJECT SPECIFIC

- 1. NEW OPENINGS SUITABLE FOR PROPER INSTALLATION OF FRAMES, INCLUDING WOOD BLOCKING IN METAL STUDS.
- 2. ELECTRICAL, SECURITY, CARPENTRY, MASONRY, EXTERIOR OR INTERIOR FINISH TRIM WORK.
- 3. ANY FILLING OR PATCHING OF FLOORS, WALLS, CEILING, PAINTING, WALL OR FLOOR COVERINGS. NOTE, EXTERIOR AND INTERIOR (IF ACCESSABLE) CAULKING IS INCLUDED.
- 4. ENGINEERING OR SHOP DRAWINGS, FIELD TESTING UNLESS NOTED ABOVE.
- 5. ADDITIONAL MOBILIZATIONS OTHER THAN AS REQUIRED TO COMPLETE OUR SCOPE OF WORK.
- 6. FINAL KEYING OR CORES UNLESS SPECIFIED ABOVE.
- 7. PERMIT OR INSPECTION RELATED FEES, CONSIQUENCIAL OR LIQUIDATED DAMAGES.
- 8. ANY OTHER WORK OR MATERIALS NOT OUTLINED ABOVE.

TERMS

- 1. FIFTY PERCENT DEPOSIT WITH PROPOSAL ACCEPTANCE, BALANCE DUE UPON OURCOMPLETION.
- 2. PROPRIETARY MATERIALS WILL REQUIRE SPECIAL PAYMENT TERMS INCLUDING DEPOSITS AND PREPAYMENTS.
- 3. STORED MATERIAL TO BE PAID FOR ON SITE OR IN OUR INSURED WAREHOUSE.
- 4. ANY OTHER TERMS OR OPEN CREDIT ACCOUNT MUST BE APPROVED BY OUR MAIN OFFICE.

JERRY YENSER	
Signature: Verre Chanser	Date: //-9-202/
Signature:	Date:



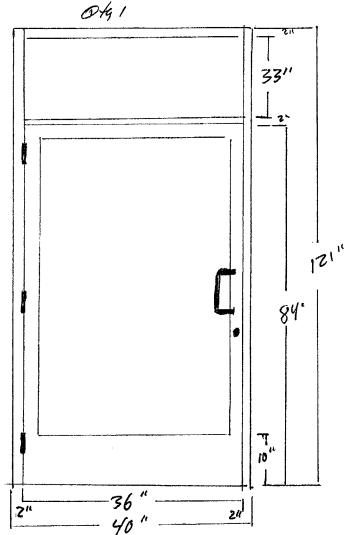
Mesko Glass & Mirror Company, Inc.

171 Lloyd Street, Allentown, Pa. 18109

Phone (610) 264 - 3000 Fax (610) 264 - 3103

11-9-2021

To: Dastin Joseph Ref: Entrance Quete



by **Veranda** (7, 17, 17, 17, 17, 190) 755

\$91⁵⁸ /box

Product Overview

Specifications

Questions & Answers

Customer Reviews

Home 7 turned ? Longhistes 7 Beards, Plants 2 Penels 7 Aprovious, « School 7 PVC Flerich

Internet #203640250 Model #827000002

Veranda

3/4 in. x 3-1/2 in. x 8 ft. White PVC Trim (6-Pack)

al chick of city (90) 11 Questions & Answers (51)









3/4	in. x	3-1/2	in. x 8	ft. White	PVC Trim	(6-Pack)
-----	-------	-------	---------	-----------	----------	----------

by Veranda and Mark (90) 755

Product Overview Specifications Questions & Answers Customer Reviews

How to Get It

Delivering to: 18052 | Change

Ship to Store
Ship to Home
Pickup
Pickup
Get it by
Not available for this
Item

FREE
FREE

We'll send up to 36 to Whitehall for free pickup Change Store

How much will you need?

Please note: calculations are estimates and can only be made using whole numbers.

Calculate by Square Footage

Area 1		
Length:		Width:
 	ft	ft
	i. Pro program and more and and more and	* Seminar specification or compared which is a seminar distriction and the compared which is a seminar of the compared with the compared w
+ Add Area		
The County of Co	र प्रेजीन्डाम्बर्टक	1

Buy now with Pay 1

by Veranda

(90)

- 750

\$9158 /box

Product Overview

Specifications

Questions & Answers

Customer Reviews

Price for all three:

\$342²⁷

This item: 3/4 in. x 3-1/2 in. x 8 ft. White PVC Trim (6-Pack) \$91.58

Veranda 3/4 in. x 5-1/2 in. x 8 ft. White PVC Trim (6-Pack) \$134.34

Veranda 1/2 in. x 12 in. x 8 ft. Fleversible White Cellular PVC Fascia (3-Piece per Box) \$116.35

Product Overview

The 3/4 in. x 3-1/2 in. x 8 ft. White Reversible PVC Trim Veranda hp cellular PVC trim is a durable alternative to wood siding. It is engineered to resist expansion and contraction and has a hard surface that protects against dents and weather damage. It is the only S4S (Smooth 4 sides) material that prevents dirt and ultraeasy to clean. The vinyl material is fire retardant and protected against rot and termites. It installs easily with screws or nails.

Info & Guides

You will need Adobe® Acrobat® Reader to view PDF documents. Download a free copy from the Adobe Web site.

Shop This Collection from Veranda (8)

All items (8)

Appearance Boards (8)

by **Veranda** (20) (90) 1755

\$9158 _{/box}

Product Overview

Specifications

Questions & Answers

Customer Reviews

Ve	ra	n	d	а

3/4 in. x 5-1/2 in. x 8 ft. White PVC Trim (6-Pack)

7, 77, 77, 77, 77, 78 (57)

\$134³⁴ /box

Veranda

3/4 in. x 2-1/2 in. x 8 ft. White PVC Trim (9-Pack)

10,000 (170)

\$92⁷⁵ /box

Veranda

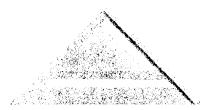
3/4 in. x 7-1/4 in. x 8 ft. White PVC Trim (3-Pack)

7, 7, 7, 7, 7, 68)

\$**96**⁹⁵ /box

★ Get Everything You Need (3)







by Veranda Managara (90)

755

\$9158 /box

Product Overview

Specifications

Questions & Answers

Customer Reviews

Sponsored Products

Legacy LP Legacy Premium 23/32 in. Tongue and

ido do (79)

\$5448

Specifications

Dimensions

Actual Product Length (ft.)	8 ft
Actual Product Thickness (in.)	0.75 in
Actual Product Width (in.)	3.5 in
Coverage Area (sq. ft.)	13.9 ft ²

by **Veranda** (20) 755

\$**91**58 /box

Product Overview	Specifications	Questions & Answers	Customer Reviews
Details			
Appearance Board Type		PVC Boards	And the second of the second o
Board Joint Type		Square Edge	
Fastener recommendation		Nails	
Features		No Additional Features	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Finish Type		Finished	1-22
Material		Vinyl	ý.
Number Of Boards Per Pack		6	
Returnable		90-Day	i.r
Texture		Smooth	
Warranty / Certifications			
Manufacturer Warranty		Lifetime Limited Warran	ty
		mas more yellow in a company of the	

Customers Who Viewed This Also Viewed

Veranda 3/4 in. x 5-1/2 in. x 8 ft. White PVC Trim (6-

White PVC Trim (9-

Veranda 3/4 in. x

2-1/2 in. x 8 ft.

Veranda 3/4 in. x 7-1/4 in. x 8 ft. White PVC Trim (3-

10000 (68)

Veranda 3/4 in. x 1-1/2 in. x 8 ft. White PVC Trim

1000 n (38)

Veranda 3/4 in. x 3-1/2 in. x 16 ft. Cellular PVC Trim

... (42)

60

\$134³⁴/box

\$9275/box

\$9695/box

\$10002/box

\$**37**95

by Veranda in a man (90)

)) 7

\$9158 _{/box}

Product Overview
Questions & Answers

Specifications

Questions & Answers

Customer Reviews

51 Questions

Search Questions & Answers

Showing **1-4** of **51**

Newest Questions

Q: Is this textured on one side

by John | Oct 17, 2021

2 Answers

Q: Is this product suitable as shelving with supports every 1...

by Dunkin | Aug 16, 2021

1 Answer

Q: converting bus, want to create a grid with these, put insul...

2 Answers

by by Jul 25, 2021

Q: Can Thor product be glued tighter so no nails heads to s...

2 Answers

by Bill Feb 8, 2021

by Veranda (90)

\$9158 _{/box}

Product Overview

Specifications

Questions & Answers

Customer Reviews

Related Searches

, pvc trim board

pvc 1x4

pvc lumber

pvc trim

white pvc trim

azek trim pvc board

Related Products

3/4 in. x 5-1/2 in. x 8 ft. White PVC Trim (6-Pack)

The 3/4 in. x 5-1/2 in. x 8 ft. White

Sec More

3/4 in. x 7-1/4 in. x 8 ft. White PVC Trim (3-Pack)

The 3/4 in. x 7-1/4 in. x 8 ft. White

See More

3/4 in. x 9-1/4 in. x 8 ft. White PVC Trim (3-Pack)

The 3/4 in. x 9-1/4 in. x 8 ft. White

See More

3/4 in. x 11-1/4 in. x 8 ft. White PVC Trim (3-Pack)

The 3/4 in. x 11-1/4 in. x 8 ft.

See More

Explore More on homedepot.com

Automotive

Shop Less than 15 in. Towing Lights

See More

MATERIAL SAFETY DATA SHEET

A. DISTRIBUTOR

COMPANY:

Brick It, Inc

STREET:

17 Central Ave Hauppauge, NY 11788

PHONE NUMBERS:

GENERAL INFO:

(631) 244-3993

DATE Revised:

February 2019

В. PRODUCT IDENTIFICATION

PRODUCT NAMES:

Thin Brick Pavers - Bricktile, Bricktile Rustics, Bricktile Classics

Thin Veneering Brick - Vee Brick

Coping

Brick Pavers - Pee Dee Pavers

CHEMICAL NAME:

Mixture

CHEMICAL FAMILY:

Predominately Aluminum Silicates

FORMULA:

Mixture

C. PRODUCT COMPONENT(S)

COMPONENTS	CAS NO.	% BY WEIGHT	ACQIH <u>TLV</u>	OSHA <u>PEL</u>
Aluminum Silicates	Various	75-85	10 MG/M ³	15 MG/M³
Iron Compounds	Various	0-5	10 MG/M ³	10 MG/M ³
Calcium Compounds	Various	0-12	15 MG/M ³	15 MG/M ³
Quartz	14808-60-7	Varies	0.1 MG/M ³	10 MG/M ³
			(Respirable)	%SIO2+2(Respirable)
Barium Compounds	Various	0-3	NE	NB
Iron Chromite	1308-31-2	0-3	I MG/M ³	1 MG/M³
Manganese Compounds	Various	0-3	NE	NE
Magnesium Compounds	Various	0-3	NE	NE
Spodumene Fines	Various	0-10	NE	NE
Feldspathic Sand	Various	0-25	NE	NE
Bottom Ash	Various	0-16	NE	NE

D. PERSONAL PROTECTION INFORMATION

VENTILATION:

When sawing brick, use adequate ventilation to maintain exposure below the OSHA PEL &

ACQIH TLV.

RESPIRATORY PROTECTION:

For concentrations exceeding the OSHA PEL or ACQIH TLV, use NIOSH/MSHA approved

EYE PROTECTION:

Use safety glasses with side shields. Face shields should also be used where dry sawing of brick

SKIN PROTECTION:

Use gloves and/or protective clothing if abrasion or allergic reactions are experienced.

OTHER:

Wear steel-toed safety shoes. A wet saw is recommended for sawing brick.

NA - Not Applicable

NE - Not Established

E. HANDLING AND STORAGE PRECAUTIONS

Avoid dust inhalation, eye contact and excessive or prolonged skin contact. Wear protective equipment and/or garments described in Section D if exposure conditions warrant.

F. REACTIVITY DATA

STABILITY:

STABLE X UNSTABLE

Conditions to avoid: None known

INCOMPATIBILITY (Materials to avoid):

None known

HAZARDOUS POLYMERIZATION:

MAY OCCUR WILL NOT OCCUR X

Conditions to avoid: None known

HAZARDOUS DECOMPOSITION PRODUCTS:

None Known

G. HEALTH HAZARD DATA *

RECOMMENDED EXPOSURE LIMITS: See Section C

ACUTE EFFECTS OF OVEREXPOSURE:

EYE:

May cause mild to severe irritation by abrasion with dust or chips.

SKIN:

Brick dust or chips may cause allergic reactions. Excessive exposure may result in

abrasions.

INHALATION:

Brick dust or chips may cause congestion and irritation in nasal and respiratory

passages.

INGESTION:

None known.

SUBCHRONIC AND CHRONIC EFFECTS OF OVEREXPOSURE:

Excessive exposure to particulate (dust) over an extended period of time may result in the development of pulmonary disease.

CARCINOGENICITY:

NTP and OSHA do not include this material, or its components, in their carcinogen listings. IARC has classed respiratory crystalline silica (quartz) as a class 2A carcinogen.

FIRST AID AND EMERGENCY PROCEDURES:

EYE:

Flush eyes with running water. Obtain medical assistance if irritation continues.

INHALATION:

Remove from exposure to airborne particulate. Consult a physician if breathing does

not return to normal.

INGESTION:

NA.

SKIN:

Wash with soap and water. If an allergic reaction causes a rash that does not heal in an appropriate time, consult a physician. Treat abrasions as any other scrape or

cut, with disinfectants and bandages.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Excessive dust exposure may aggravate any existing respiratory disorders or diseases. Possible complications of allergies resulting in irritation to skin, eyes and respiratory passages may occur from excessive exposure to dusts.

The dust generated from sawing brick may contain silica and may be a potential health problem for the lungs although we are aware of no scientific evidence of a health problem.

NA - Not Applicable

NE - Not Established

H. PHYSICAL DATA

APPEARANCE AND ODOR: Granular solid, essentially odorless, wide range of colors.

BOILING POINT: NA

SPECIFIC GRAVITY (H₂O=1) 2.6 (approximate)

VAPOR PRESSURE: NA
PERCENT VOLATILE BY VOLUME: NA
VAPOR DENSITY: NA

SOLUBILITY IN WATER: Negligible

EVAPORATION RATE (Ethyl Ether=1) NA
PH: NA

I. FIRE AND EXPLOSION DATA

FLASH POINT: NA

FLAMMABLE LIMITS

(% by volume in air) LEL NA VEL NA

FIRE EXTINGUISH MEDIA: NA

SPECIAL FIRE FIGHTING PROCEDURES: NA

FIRE AND EXPLOSION HAZARDS: NA

J. SPILL OR LEAK PROCEDURES

The only concern is to control dusts.

K. WASTE DISPOSAL

This material is classified as a non-hazardous solid waste for disposal.

L. RCRA CLASSIFICATION

NA

M. DOT SHIPPING DATA

NA

N. PROTECTION REQUIRED FOR WORK ON CONTAMINATED EQUIPMENT

NA

NA - Not Applicable

NE - Not Established

O. HAZARD C	LASSIFICATION
-------------	---------------

	<u>x</u> .	X This product meets the following hazard definition(s) as defined by the Occupational Safety and Health Hazard Communication Standard Section 1810.1200:			
		Combustible Liquid Flammable Aerosol Compressed Gas Explosive Flammable Gas X* Health Hazard Flammable Liquid Organic Peroxide Flammable Solid Oxidizer Pyrophoric Unstable Water Reactive			
	<u></u>	Based on information presently available, this product does not meet any of the hazard definitions of 29 CFR Section 10.1200			
P.	SARA	(TITLE III) REPORTS			
	Compone	ents of this product that are subject to the reporting requirements of Section 313 of SARA and 40 CFR Part 372: NA			
	Compone	ents of this product that are included in the SARA Extremely Hazardous Substance List (40 CFR Part 355): NA			
Q.	OTHE	R INFORMATION			
•	BFRICK IT I required and occasionally	INC considers its products an "article" as defined in 29 CPR Part 1200 (b)(5)(iv) and 40 CFR Part 372.38. As an article, a MSDS is not the product is exempt from all other requirements of the hazardous communication standard. OSHA requires a MSDS for brick since it is dry sawed.			

NE - Not Established

NA - Not Applicable



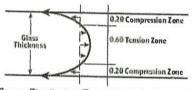
Flat Glass Products - Tempering Insulating - Beveling - Edgework All-Glass Doors - Shower Enclosures StoreFront and Curtain Wall Systems Aluminum Entrances

www.syracuseglass.com
Our Commitment Shines Through

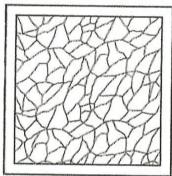
Tempered Glass Product Data Sheet

Stress

Tempered glass gains its added strength from these compressed surfaces. However, if the surface is penetrated by a scratch or an impact, the glass will break into a number of small particles.



Final Stress Distribution. The sum of the forces in compression equals the force in tension.



Typical Breakage Pattern

Certifications:

TUFFVUE Tempered Glass Products manufactured by Syracuse Glass Company meet the requirements of :

- ASTM C1036 Standard Specification for Flat Glass
- ASTM C1048 Standard Specification for Heat Treated Flat Glass
- ANSI Z97.1 American National Standard for Safety Glazing Materials Used in Buildings
- 16 CFR 1201 Category II Consumer Products Safety Commission Safety Standard for Architectural Glazing Materials

Syracuse Glass Company is a licensee of the Safety Glazing Certification Council (SGCC), a non-profit corporation that provides third-party certification of safety glazing materials through unannounced in-plant inspections and laboratory testing.



Flat Glass Products - Tempering Insulating - Beveling - Edgework All-Glass Doors - Shower Enclosures StoreFront and Curtain Wall Systems Aluminum Entrances

Our Commitment Shines Through

PRODUCT CERTIFICATIONS

TEMPERED AND HEAT STRENGTHENED PRODUCTS

Syracuse Glass Company (SGC) manufacturers and certifies its Tempered Glass Products to comply with:

ANSI Z97.1 American National Standard for Safety Glazing Materials Used In Buildings, Class A

CPSC 16 CFR 1201 Safety Standard for Architectural Glazing Materials, Category II.

CAN/CGSB 12.1 National Standards of Canada

CPSC Compliance documents available at www.syracuseglass.com.

SGC is a licensee of the Safety Glazing Certification Council (SGCC) Certification Program which requires periodic independent laboratory testing and unannounced plant quality audits and inspections. SGCC Certification letter or Certified Product Directory, or independent laboratory test results are available on request.

Tempered and Heat Strengthened Glass Products manufactured by SGC meet the requirements of:

ASTM C1036 Standard Specification for Flat Glass (Quality Level Q3), and

ASTM C1048 Standard Specification for Heat Treated Flat Glass

INSULATING GLASS PRODUCTS

Syracuse Glass Company manufacturers Insulating Glass which meets requirements of:

ASTM E2190 (formerly ASTM E773 and E774) Standard Specification for Insulating Glass Unit Performance and Evaluation. Independent laboratory test results are available upon request.

SGC is a licensee of the Insulating Glass Certification Council (IGCC) Certification Program which requires periodic accelerated laboratory testing to ASTM E2188 and E2189 test methods and unannounced plant quality audits and inspections. IGCC Certification letter or Certified Product Directory is available on request.

SGC Insulating Glass Products comply with the requirements of:

ASTM C1036 Standard Specification for Flat Glass (Quality Level Q3)



Flat Glass Products - Tempering Insulating - Beveling - Edgework All-Glass Doors - Shower Enclosures StoreFront and Curtain Wall Systems Aluminum Entrances

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Tempered Glass Product Data Sheet

Annealed float glass can be cut to a desired finished size and tempered to provide a glass product with greater resistance to thermal, mechanical or impact loads or to break in a manner that allows its use where safety glass is mandated by federal law or building code. Although tempered glass has increased resistance to thermal loads, it is not a fire-rated glazing product.

Syracuse Glass Company's TUFFVUE Tempered glass is available in $1/8'' - \frac{3}{4}''$ thickness in a size range from a minimum of 4''x10'' to a maximum of 84''x 144''. Clear, Tinted, Reflective, Low E, and most Rolled Pattern Glass can be tempered. Glass products with extremely uneven surfaces can not be tempered.

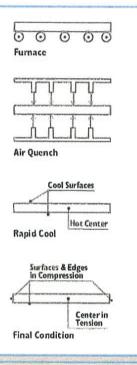
Tempered glass is used where high resistance to mechanical loads calls for maximum glass strength achievable for a given glass thickness, and where a safety glazing product is mandated by law, by building code or by a desire for maximum safety in the event of human impact.

While tempered glass is very strong, it can be broken. And when it does break, it disintegrates into tiny pieces. Therefore it should be used with caution where falling material would be a concern, like windows in a multi-story building over a court yard or plaza, or where security is of paramount concern, like a prison or jewelry store display window, or in a furniture application where glass disintegration would risk collateral damage, like a shelf or table holding precious objects. Tempering also enables heat absorbing glass products to withstand high thermal loads and stresses, but the industry recommends the use of heat strengthened glass where thermal stress is predicted. The tempering process adds distortion and changes the glass surface, factors that should be considered if appearance of reflected images is critical.

Tempering Process

Syracuse Glass Company fabricates tempered glass with a UNIGLASS state-of-the-art electrically heated horizontal furnace with the latest technological innovation in tempering – convection. The glass is conveyed into a heating chamber where it oscillates on ceramic rollers until it reaches a temperature of approximately 1200 degrees Fahrenheit.

The glass exits the furnace into a quench chamber where it is rapidly cooled by air driven through a series of nozzles by two six hundred horsepower motors. The air is directed to both surfaces of the piece of glass uniformly - top and bottom. The quench process locks the top and bottom surfaces and edges in a state of high compression around a central core in compensating tension. The compression zone is about 20 percent of the glass thickness from each surface, surrounding a center core tension zone of about 60 percent of the glass thickness.





Flat Glass Products - Tempering Insulating - Beveling - Edgework All-Glass Doors - Shower Enclosures StoreFront and Cartain Wall Systems Aluminum Entrances

Our Commitment Shines Through

Tempered Glass Product Data Sheet

Properties

- Tempered glass has about four times the strength to resist impact, or mechanical and thermal loads compared to annealed glass of equal thickness.
- The color, clarity, chemical composition and light transmission characteristics of glass remain unchanged after tempering.
- Tempering does not reduce glass deflection under load. Glass deflection can be reduced by using glass of greater thickness.
- Tempered glass breaks into small pieces less likely to cause injury than annealed or heat strengthened glass.
- Tempered glass can not be cut or drilled, sandblasted or etched, or edge polished or ground. Any fabrication or field alteration will weaken or break tempered glass.
- Tempered glass is subject to rare "spontaneous breakage" caused by one or a combination of these
 causes: surface or edge damage, deep scratches or gouges, severe weld spatter, missile or
 windborne debris impact, glass to metal contact, wind/thermal loading or rare inclusions or
 impurities in the float glass that weaken the compression layer of the glass. Breakage may occur
 long after the damaging event, as a result of normal thermal or wind cycling, but seemingly for no
 apparent cause.
- When tempered glass breaks, the resulting small pieces can vacate the framing system under a lateral load. Other fabricated glass options like laminated glass or heat strengthened glass are less likely to leave the framing system in the case of breakage.
- When viewing tempered glass in certain conditions, a pattern of iridescent spots or darkish shadows may become visible. This is the strain pattern created by the quench process. Sharp viewing angles, polarized light, thick glass, and glass coatings increase the visibility of the strain pattern.
- The original flatness of glass is slightly modified by the tempering process, causing reflected images to be more distorted than annealed glass. Warp, bow, and roller distortion are inherent characteristics of tempered glass. Syracuse Glass Company produces product among the best in the industry, but distortion of reflected images can not be entirely eliminated, especially when viewed at high incidence angles, with even the best equipment and craftsmanship. As distortion is not easily quantifiable, full scale mock-up samples are recommended for critical viewing areas.
- As a result of hot glass contact with ceramic rollers, some glass surface changes will occur. Minute
 glass particles (fines) from the glass cutting and edging process, and airborne dust may adhere to
 one or both glass surfaces. Also, the physical contact of the soft glass surface with the rollers may
 result in a marking of the glass surface. These surface conditions are typically not visible to the eye
 under normal viewing conditions. Tempered glass surfaces should not be cleaned with razor blades
 or metal scrapers.
- Sizes, locations, and quantities of holes and notches in tempered glass must be governed by ASTM C1048 guidelines.
- Tempered glass must have seamed or polished edges.
- Tempered glass is supplied with a permanent identifying mark in one corner identifying the manufacturer and the applicable safety glazing standards unless ordered "no logo".



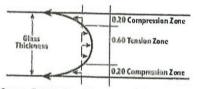
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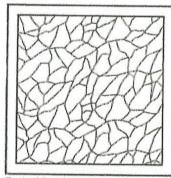
Tempered Glass Product Data Sheet

Stress

Tempered glass gains its added strength from these compressed surfaces. However, if the surface is penetrated by a scratch or an impact, the glass will break into a number of small particles.



Final Stress Distribution. The sum of the forces in compression equals the force in tension.



Typical Breakage Pattern

Certifications:

TUFFVUE Tempered Glass Products manufactured by Syracuse Glass Company meet the requirements of :

- ASTM C1036 Standard Specification for Flat Glass
- ASTM C1048 Standard Specification for Heat Treated Flat Glass
- ANSI Z97.1 American National Standard for Safety Glazing Materials Used in Buildings
- 16 CFR 1201 Category II Consumer Products Safety Commission Safety Standard for Architectural Glazing Materials

Syracuse Glass Company is a licensee of the Safety Glazing Certification Council (SGCC), a non-profit corporation that provides third-party certification of safety glazing materials through unannounced in-plant inspections and laboratory testing.